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(54) Title: **DIAGNOSTICS AND THERAPEUTICS FOR DISEASES ASSOCIATED WITH PHOSPHODIESTERASE 1B (PDE1B)**

(57) Abstract: The invention provides a human PDE1B which is associated with the cardiovascular disorders, metabolic diseases, gastrointestinal and liver diseases, cancer disorders, hematological disorders, respiratory diseases, neurological disorders and urological disorders. The invention also provides assays for the identification of compounds useful in the treatment or prevention of cardiovascular disorders, metabolic diseases, gastrointestinal and liver diseases, cancer disorders, hematological disorders, respiratory diseases, neurological disorders and urological disorders. The invention also features compounds which bind to and/or activate or inhibit the activity of PDE1B as well as pharmaceutical compositions comprising such compounds.

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